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L1: (0) ("7110731") or ("7107023")).PN.

L2: (89888) "455"/\$.ccls. or 340/902-905 or 340/539 or 370/320 or 3

L3: (4423) 2 and (railroad or railway or train or locomotive or subw

L4: (3895) 3 and control

L5: (426) 4 and "center frequency"

L6: (64) 5 and (adjust\$4 near5 "center frequency")

L7: (32) 6 and modulator

L8: (32) 7 and transmitter

L9: (1) 8 and "dual mode"

L10: (2) 8 and (alert\$3 near8 (railroad or railway or train or locomot

L11: (6) ("5635921") or ("5602868") or ("5162763") or ("6188891")

L12: (3) 11 and modulator

L13: (0) 12 and (adjust\$4 near5 "center frequency")

L14: (2) 12 and transmitter

L15: (23) 7 and transmitter

L16: (7) 15 and alert\$3

L17: (861) 455/127.4 455/91 455/103 340/539 340/902-905 370/320 3

L18: (17) 17 and "center frequency".clm.

L19: (9) 18 and modulator.clm.

L20: (0) 19 and transmitter.clm.

L21: (1) 19 and (adjust\$4 near5 "center frequency").clm.

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United States

Patent Application Publication (35 Pub. No.: US 2004/0166819 A1

Derome et al. (41 Pub. Date: Aug. 26, 2004)

DUAL-MODE TRANSMITTER

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Appl. No.: 10/705,523

Filed: Dec. 11, 2003

Related U.S. Application Data

Continuation-in-part of application No. 09/942,763,

filed on Aug. 25, 1998, now Pat. No. 6,370,362.

Publication Classification

Int. Cl. H04B 1/64

ABSTRACT

An emergency and non-emergency transmitter receivable by land-based land stations is easily vehicle, comprising a first digital processor by continuously providing a plurality of selectively spaced carrier bursts (emergency signals) corresponding to the individual channels of the band to be covered and selectively providing impulsive modulation when used for the AIS function band, and a second digital processor providing an FM modulated signal, which when combined with the signal from the first digital processor, covers various portions of the FM band on board to provide complete coverage thereof. A plurality of signals are generated in a position of a selected band and modulated, according to the selected band mode, with a pre-stored and selectable voice alarm message. An EAS-RDS decoder monitors for emergency transmissions and decodes the dual-mode transmitter if an EAS-RDS transmission is detected so that either within the coverage area of the dual-mode transmitter will receive the EAS-RDS transmission.

	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ret	Inventor	
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040166819 A1	20040826		Dual-mode transmitter	455/127.4	455/91		Derome, George E. et al.	

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-L15: (23) 7 and transmitter

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US 200503947A1

(19) United States  
(12) Patent Application Publication

Derevo et al. (51) Pub. No.: US 2005/0009497 A1  
(52) Pub. Date: Jan. 13, 2005

(34) DUAL-MODE TRANSMITTER FOR  
EARTHED CIRCUITS

**Publication Classification**

(79) **Inventory:** George E. Deane, Mansfield, MA (1-3); Brad E. Dettmer, Stoughton, MA (1-4); Thomas Thomas, Worcester, MA (1-3)

(1) En. Cl. \_\_\_\_\_ H04B 1/00; H04B 7/00;  
H04B 1/07; H04B 1/08

(2) U.S. Cl. \_\_\_\_\_ G06F 3/02; G06F 3/06; G06F 3/08;  
G06F 3/10; G06F 3/12

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07 ABSTRACT

(21) Appl. No.	10,224,129
(22) Filed	Aug. 16, 2004

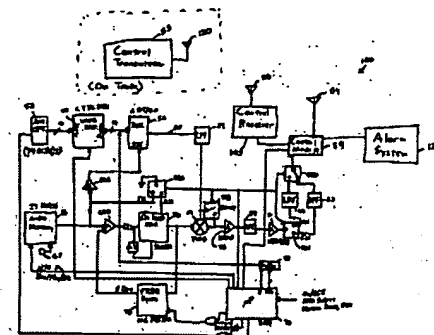
57 ABSTRACT

(CZ) Inc. Apr. 16, 2004

A transmitter made up of broadcast band modems is usually vehicle-mounted, comprising a few signal generators for continuously providing a plurality of subcarrier spaced carriers having frequency spacings corresponding to the individual channels of the band to prevent and selectively providing amplitude modulation when used for AM broadcast band, and a second signal generator providing an FM modulated signal, which when combined with the signal from the first signal generator, covers various portions of the FM broadcast band to provide complete coverage thereof. A plurality of signals are generated in a process of a selected band and modulated, according to the selected band service, with a pre-assigned and selectively voice alarm message.

11. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

(37) Cancellation-in-part of application No. 10735,52 filed on Dec. 11, 2003, which is a continuation-in-part of application No. 09-362,769, filed on Aug. 23, 1994 now abandoned.



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	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ref	Inventor	
1		<input type="checkbox"/>	US 20050009497 A1	20050113	11	Dual-mode transmitter for railroad crossings	455/351	340/907; 455/151.1;		Derome, George E. et al.	

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15 and alert\$3

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	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ret	Inventor	
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6501393 B1	20021231	38	System and method for using impulse radio technology to tr	340/993	340/988; 340/991		Richards; James L. et al.	F
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5943606 A	19990824	21	Determination of frequency offsets in communication syst	455/12.1	342/358; 455/427;		Kremun; Steven A. et al.	F

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12 and transmitter

	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ret	Inventor	
1	<input type="checkbox"/>	<input type="checkbox"/>	US 5635921 A	19970603	20	Emergency vehicle radio transmission system	340/902	340/2.1; 340/825.3		Maxwell; Douglas G. et al.	F
2	<input type="checkbox"/>	<input type="checkbox"/>	US 5602868 A	19970211	7	Multiple-modulation communication system	375/219	329/300; 329/304;		Wilson; Alan L.	F

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